

**AMENDED CLAIMS**

[received by the International Bureau on 02 May 2005 (02.05.2005);  
Claims 3 is amend , claims 1,2 and 6 are canceled, claims 4,5,7 to 10  
remain unchanged.]

What is claimed is;

1. (Canceled)

5 2. (Canceled)

3. (Amended) An apparatus for manufacturing a semi-solid metal slurry having a uniform spherical structure, comprising:

10 a furnace formed of a refractory material and having a housing formed at an upper portion thereof such that molten metal is fed into and discharged from the housing;

an electromagnetic agitator for generating an electromagnetic field through application of electricity to an outside of the furnace;

15 a cooler for performing rapid cooling of the molten metal discharged from the furnace;

a guide member positioned at an angle such that cooled slurry is guided along the guide member to a supporting frame equipped below the cooler; and

20 a storing part equipped below the guide member for uniformly storing the slurry dropped along the guide member;

wherein the cooler comprises a space defined between an inner wall and an outer wall of the cooler such that a path is formed through the center of the cooler, and a supplying pipe 25 formed at one side of the outer wall so as to be communicated

with the space, the inner wall being formed with a plurality of injection holes communicated with the space.

4. The apparatus as set forth in claim 3, further  
5 comprising:

a temperature controller provided in the furnace for controlling an internal temperature of the molten metal according to a temperature of the molten metal fed into the furnace and an atmospheric temperature in the furnace

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5. The apparatus as set forth in claim 4, wherein the temperature controller comprises a temperature sensor, and a heating member for generating heat according to a signal from the temperature sensor.

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6. (Canceled)

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7. The apparatus as set forth in claim 3, wherein the electromagnetic agitator is equipped to surround the outside of the furnace and the cooler.

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8. The apparatus as set forth in claim 3, wherein the storing part comprises a slurry-storing container for containing the slurry dropped thereto, and a circulating member for circulating the slurry so that the slurry is

uniformly stored within the slurry-storing container.

9. The apparatus as set forth in claim 8, wherein the circulating member circulates the slurry-storing container in  
5 a predetermined locus by means of an input program.

10. The apparatus as set forth in claim 8, wherein the slurry-storing container is formed of a ceramic material having a low thermal conductivity.